

IN THE CLAIMS:

Please accept amended claims 29, 58 and 59 as follows:

1.- 28. (canceled)

29. (Currently Amended) An entertainment unit for a vehicle, comprising:
an assembly housing disposed in an interior of the vehicle;
a bus adapted to couple at least one of video and audio signals from each of a plurality of input devices, wherein said bus comprises a video bus and an audio bus;
at least one display device, houseable in said assembly and operatively coupled to said bus, adapted to reproduce the video signals;
at least two wireless transmitters operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit a plurality of audio programs to a plurality of wireless headphone sets, wherein said at least two wireless transmitters each comprise at least one multiplexor adapted to select, through a SELECT (SEL) input, an input device of the plurality of input devices whose audio output is to be wirelessly transmitted, and wherein ~~at least one of~~ the at least two wireless transmitters are each wired to the audio bus to receive the audio signals from each of the plurality of input devices via the audio bus at a first input position, and are each wired to receive the SEL input at a second input position ~~is an infrared transmitter transmitting the selected audio output on left and right frequencies, the left and right frequencies being different from each other and ranging from approximately 2.3 MHz to approximately 3.0 MHz;~~ and
a splitter connected to the audio bus, wherein the splitter splits the audio signals

and provides the audio signals to both of the at least two wireless transmitters.

30. (Previously Presented) The entertainment unit according to claim 29, wherein the wireless signals are at least one of radio frequency and infrared signals.

31. (Previously Presented) The entertainment unit according to claim 29, wherein the plurality of input devices comprise at least one of a television tuner, a video cassette player (VCP), a compact disk (CD) player, a digital video disk (DVD) player, an AM/FM radio, and a video game player.

32. (Previously Presented) The entertainment unit according to claim 29, wherein the plurality of input devices comprises an external audio/video signal processor adapted to input at least one of the audio signals and the video signals from an external source.

33. (Previously Presented) The entertainment unit according to claim 32, wherein the external source is a portable media device.

34. (Previously Presented) The entertainment unit according to claim 29, further comprising signal processing facilities adapted to perform at least one of signal processing and signal conversion, with respect to at least one of the audio signals and the video signals.

35. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device is mounted in said entertainment unit in one of a non-fixed configuration and a fixed configuration.

36. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device employs one of a liquid crystal display (LCD), light emitting diodes (LEDs), and a gas plasma.

37. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device employs touch screen technology.

38. (Previously Presented) The entertainment unit according to claim 29, wherein said at least one display device includes one of picture-in-picture and split screen capability.

39. (Canceled)

40. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters are each adapted to wirelessly transmit the plurality of audio programs to each of the plurality of wireless headphone sets as a left audio channel and a right audio channel.

41. (Previously Presented) The entertainment unit according to claim 40,

wherein the left audio channel and the right audio channel correspond to different frequencies.

42. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters are each adapted to wirelessly transmit the plurality of audio programs to each of the plurality of wireless headphone sets as a left audio channel and a right audio channel, each of the channels having a different frequency for each of the plurality of wireless headphone sets.

43. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters each comprise an optical transmitting device and at least one of said plurality of wireless headphone sets comprises a photosensitive device.

44. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters and at least one of said plurality of wireless headphone sets comprise an antenna.

45. (Previously Presented) The entertainment unit according to claim 29, wherein at least one of said plurality of wireless headphone sets comprises a digital-to-analog converter.

46. (Previously Presented) The entertainment unit according to claim 29,

wherein said at least two wireless transmitters are adapted to transmit the plurality of audio programs based on Code-Division Multiple Access (CDMA) technology.

47. (Previously Presented) The entertainment unit according to claim 46, wherein each of the plurality of wireless headphone sets comprises a selector for selecting one of the plurality of audio programs for audio reproduction.

48. (Previously Presented) The entertainment unit according to claim 29, wherein said at least two wireless transmitters are capable of simultaneously transmitting the plurality of audio programs at different respective frequencies.

49. (Previously Presented) The entertainment unit according to claim 48, wherein said plurality of wireless headphone sets are capable of receiving on a plurality of channels the plurality of audio programs transmitted at the different respective frequencies.

50. (Previously Presented) The entertainment unit according to claim 49, wherein each of said plurality of wireless headphone sets includes a multiplexer for selecting one of the plurality of channels corresponding to one of the plurality of audio programs.

51. (Previously Presented) The entertainment unit according to claim 29, further comprising at least one other display device operatively coupled to said bus.

52. (Previously Presented) The entertainment unit according to claim 51, wherein the at least one other display device is capable of displaying a first video program from one of said plurality of input devices at the same time the at least one display device displays a second video program from another one of said plurality of input devices.

53. (Previously Presented) The entertainment unit according to claim 51, wherein:

the at least one other display device includes at least one other wireless transmitter operatively coupled to said audio bus; and

the at least one other wireless transmitter is capable of transmitting a first audio program from one of said plurality of input devices at the same time at least one of the other two wireless transmitters transmits a second audio program from another one of said plurality of input devices.

54. (Previously Presented) The entertainment unit according to claim 53, wherein the first audio program is transmitted on a first frequency and the second audio program is transmitted on a second frequency.

55. (Previously Presented) The entertainment unit according to claim 51, wherein the at least one other display device is positioned remote from the assembly housing.

56. (Previously Presented) The entertainment unit according to claim 29, wherein a first transmitter of the at least two wireless transmitters is capable of transmitting a first audio program from one of said plurality of input devices at the same time a second transmitter of the at least two wireless transmitters transmits a second audio program from another one of said plurality of input devices.

57. (Previously Presented) The entertainment unit according to claim 56, wherein the first audio program is transmitted on a first frequency and the second audio program is transmitted on a second frequency.

58. (Currently Amended) An entertainment unit for a vehicle, comprising:
an assembly housing disposed in an interior of the vehicle;
a video bus adapted to couple video signals from at least some of a plurality of input devices;
an audio bus adapted to couple audio signals from at least some of the plurality of input devices;
at least one display device, houseable in said assembly and operatively coupled to said video bus, adapted to reproduce the video signals;
two wireless transmitters operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit a plurality of audio programs from at least some of the plurality of input devices to a plurality of wireless headphone sets, wherein said wireless transmitters each comprise at least one multiplexor adapted to select, through

a SELECT (SEL) input, an input device of the plurality of input devices whose audio output is to be wirelessly transmitted, and wherein ~~at least one of~~ the two wireless transmitters are each wired to the audio bus to receive the audio signals from each of the plurality of input devices coupled to the audio bus, via the audio bus at a first input position, and are each wired to receive the SEL input at a second input position is an infrared transmitter transmitting the selected audio output on left and right frequencies, the left and right frequencies being different from each other and ranging from approximately 2.3 MHz to approximately 3.0 MHz; and

a splitter connected to the audio bus, wherein the splitter splits the audio signals and provides the audio signals to both of the two wireless transmitters.

59. (Currently Amended) An entertainment unit for a vehicle, comprising:
an assembly housing disposed in an interior of the vehicle;
an audio bus adapted to couple audio signals from at least two input devices;
two wireless transmitters operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit the audio signals from the at least two input devices to at least two wireless headphone sets, so that each wireless headphone set receives an audio signal from a different one of the at least two input devices, wherein said two wireless transmitters each comprise at least one multiplexor adapted to select, through a SELECT (SEL) input, an input device of the at least two input devices whose audio output is to be wirelessly transmitted, and wherein ~~at least one of~~ the two wireless transmitters are each wired to the audio bus to receive the audio signals from each of the at least two input devices via the audio bus at a first input position, and are

each wired to receive the SEL input at a second input position is an infrared transmitter transmitting the selected audio output on left and right frequencies, the left and right frequencies being different from each other and ranging from approximately 2.3 MHz to approximately 3.0 MHz; and

a splitter connected to the audio bus, wherein the splitter splits the audio signals and provides the audio signals to both of the two wireless transmitters.